

PAT-NO: JP02002299975A
DOCUMENT-IDENTIFIER: JP 2002299975 A
TITLE: DIGITAL AGC DEVICE

PUBN-DATE: October 11, 2002

INVENTOR-INFORMATION:

NAME	COUNTRY
NUMAMOTO, TATSUHIKO	N/A

ASSIGNEE-INFORMATION:

NAME	COUNTRY
MATSUSHITA ELECTRIC IND CO LTD	N/A

APPL-NO: JP2001103233
APPL-DATE: April 2, 2001

INT-CL (IPC): H03G003/20

ABSTRACT:

PROBLEM TO BE SOLVED: To minimize signal distortion by using digital signal processing and to obtain an optimum AGC (automatic gain control) characteristic in accordance with a signal situation in an AGC device.

SOLUTION: A peak detecting means 22 performs peak detection of output digital data, a peak deciding means 23 performs a decision, a target gain deciding means 24 decides a target gain according to results, and a multiplying means 27 performs AGC processing by multiplying input digital data by using a gain coefficient set by a gain setting means 25 in accordance with the target gain. Since the optimum gain coefficient can be decided by controlling the target gain deciding means 24 and the gain setting means 25, the optimum AGC characteristic can be obtained. Furthermore, the signal distortion can be minimized in such a manner that a gain deciding means 21 performs gain decision before multiplication.

PAT-NO: JP02003338041A
DOCUMENT-IDENTIFIER: JP 2003338041 A
TITLE: OPTICAL DISK PLAYBACK APPARATUS

PUBN-DATE: November 28, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
TOMIOKA, KOJI	N/A

ASSIGNEE-INFORMATION:

NAME	COUNTRY
ASAHI KASEI MICROSYSTEMS KK	N/A

APPL-NO: JP2002141734

APPL-DATE: May 16, 2002

INT-CL (IPC): G11B007/005

ABSTRACT:

PROBLEM TO BE SOLVED: To precisely extract a wobble signal and an LPP (Land PrePit) signal included in a read signal read from an optical disk.

SOLUTION: This optical disk playback apparatus is provided with an automatic gain control circuit 7 for controlling the amplitude of the read signal to be constant in order to extract the wobble signal or the LPP signal included in the read signal obtained by reading information recorded in the optical disk. The automatic gain control circuit 7 comprises: a variable gain amplifier 71; a high-pass filter 72 for removing DC components from the output signal of the automatic gain control circuit 71; a peak detection circuit 73 for detecting, as a peak value, the amplitude of an RF signal from which the influence of the LPP signal is removed among the output signals of the high-pass filter 72; and a comparison circuit 74 which compares the peak value with reference voltage and generates a gain control

signal for controlling the gain of the automatic gain control circuit
71 according to the comparison result.

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Fターム(参考) 5D090 AA01 BB03 BB05 CC04 EE13

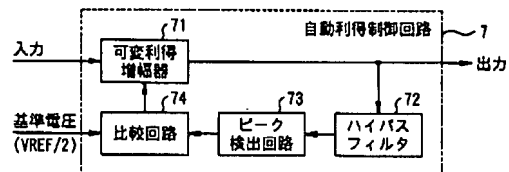
FF41 GG03 GG27

(54) 【発明の名称】 光ディスク再生装置

(57) 【要約】

【課題】 光ディスクから読み取られた読み取り信号に含まれるウォブル信号とLPP信号を抽出する際に、それらを精度良く抽出する。

【解決手段】 この発明は、光ディスクに記録される情報を読み取った読み取り信号に含まれるウォブル信号またはLPP信号を抽出するために、読み取り信号の振幅を一定に制御する自動利得制御回路7を備えている。この自動利得制御回路7は、可変利得増幅器71と、可変利得増幅器71の出力信号から直流成分を除くハイパスフィルタ72と、ハイパスフィルタ72の出力信号のうちLPP信号の影響を除いたRF信号の振幅をピーク値として検出するピーク検出回路73と、そのピーク値を基準電圧と比較し、その比較結果に応じて可変利得増幅器71の利得を制御する利得制御信号を生成する比較回路74とからなる。



PAT-NO: JP02000331347A
DOCUMENT-IDENTIFIER: JP 2000331347 A
TITLE: OPTICAL DISK DEVICE

PUBN-DATE: November 30, 2000

INVENTOR-INFORMATION:

NAME COUNTRY

IIMURA, SHINICHIRO N/A

ASSIGNEE-INFORMATION:

NAME COUNTRY

SONY CORP N/A

APPL-NO: JP11135252

APPL-DATE: May 17, 1999

INT-CL (IPC): G11B007/004 , G11B007/09

ABSTRACT:

PROBLEM TO BE SOLVED: To detect the weaving motion of a groove even during recording and to surely reproduce various pieces of information caused by the weaving motion by generating wobble signals through subtracting the light receiving results of the light receiving surfaces of the inner and outer peripheral sides during data recording, changing the gain in accordance with the levels of the light receiving results and correcting the levels of the light receiving results.

SOLUTION: The signal levels of light receiving results I0 and I1 obtained from the light receiving surfaces of inner and outer peripheral sides are corrected by multiplying circuit 24A and 24B of AGC circuits 22A and 22B. Then, peak levels are detected by peak hold circuits 25A and 25B. Then, the gains of the circuits 24A and 24B are connected so that the detected peak levels become a prescribed level.. Then, the signal levels of the results I0 and I1 are corrected so that the signal level changes at the results I0 and I1 associated

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PUBN-DATE: November 28, 2003

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TOMIOKA, KOJI	N/A

ASSIGNEE-INFORMATION:

NAME	COUNTRY
ASAHI KASEI MICROSYSTEMS KK	N/A

APPL-NO: JP2002141734

APPL-DATE: May 16, 2002

INT-CL (IPC): G11B007/005

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signal for controlling the gain of the automatic gain control circuit
71 according to the comparison result.

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EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	88	("6047102" "6385393" "20040141571" "6487149" "5696752" "6594210" "6785207" "6859425" "7061845" "7133335" "20010026512" "20020018411" "20030128641" "20040202092" "20050105424" "20060187784" "20060256671" "20070030769" "5416759" "5675568" "5177726" "4908811" "5206847" "5212598" "5252903" "5253243" "5459706" "5477142" "5523987" "5745461" "6247900" "6377528" "6385150" "6418105" "6438082" "6442116" "6560172" "6891782" "6956805" "7026852" "7031248" "7079475" "7177244" "7212486" "20020012299" "20020018413" "20020018414" "20020034378" "20030053384" "20030058699"). pn...	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/11 00:32
L2	916	455/234.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/11 00:32
L3	42065	Peak adj2 detect\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/11 00:33
L4	23399	peak near6 period	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/11 00:33
L5	7	2 and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/11 00:33

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	70299	agc (automatic adj gain adj control)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 13:51
L2	42048	peak adj2 detect\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 10:26
L3	1586	1 same 2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 10:27
L4	8631	gain near3 coefficient	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 10:27
L5	1	2 near5 4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 10:28
L6	23	3 and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 10:50
L7	27234	wobble	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 10:51
L8	750	1 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 13:47
L9	125	1 same 7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 10:51
L10	14	peak same 9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 11:23
L11	2	"6865177".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 12:36

EAST Search History

L12	3240	(1 same peak same gain) wooble	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 12:36
L13	30440	(1 same peak same gain) wobble	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 12:37
L14	23	(1 same peak same gain) and wobble	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 13:03
L15	64	(1 same peak same gain) and dvd	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 13:03
L16	0	1 and woobl\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 13:48
L17	956	1 and wobbl\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 13:48
L18	153	1 same wobbl\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 13:48
L19	0	(peak same 18) not 10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 13:49
L20	14	(peak same 18)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 13:49
L21	13731	digital same 1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 13:51
L22	870	21 same peak	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 13:51
L23	1	22 same 22 same dvd	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 13:52

EAST Search History

L24.	1	22 same dvd	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 13:52
L25	19	22 and dvd	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 14:13
L26.	1	"7212640".pn. and digital	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 14:57
L27	2	"5719867".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/07 14:58